<u>In the Specification</u>

Please replace the formula on page 6 with the following formula:

$$
L_j = \ln \frac{P\left(u_j = +1 \middle| \mathbf{y}\right)}{P\left(u_j = -1 \middle| \mathbf{y}\right)} = \frac{\displaystyle\sum_{\substack{(s',s) \\ u_j=+1}} p(s',s,\mathbf{y})}{\displaystyle\sum_{\substack{(s',s) \\ u_j=-1}} p(s',s,\mathbf{y})} = \frac{\displaystyle\sum_{\substack{(s',s) \\ u_j=+1}} \alpha_{j-1}(s')\gamma_j(s',s)\beta_j(s)}{\displaystyle\sum_{\substack{(s',s) \\ u_j=-1}} \alpha_{j-1}(s')\gamma_j(s',s)\beta_j(s)} .
$$

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